

In the Claims:

Please amend claim 10 as follows:

Please cancel claims 22-23 without prejudice to Applicant.

This listing of claims will replace all prior versions, and listings, of claims in the application. Accordingly, claims 10-21 remain for examination in the present application.

1.-9. (Cancelled)

10. (Currently amended) DNA encoding a chimeric isoprenoid sesquiterpene synthase polypeptide, wherein said chimeric isoprenoid synthase polypeptide comprises two polypeptides: a first isoprenoid synthase polypeptide joined to a second different isoprenoid synthase polypeptide such that the chimeric isoprenoid sesquiterpene synthase polypeptide encoded by the DNA catalyzes: (1) the production of at least one isoprenoid reaction product that is not produced in the absence of the second isoprenoid synthase polypeptide; or (2) the production of more than one isoprenoid reaction product in a ratio differing from the ratio of the products produced in the absence of the second isoprenoid synthase polypeptide.

11. (Original) A vector comprising the DNA of claim 10.

12. (Original) A cell comprising the DNA of claim 10.

13. (Original) The cell of claim 12, wherein said cell is *E. coli*.

14. (Original) The cell of claim 12, wherein said cell is a plant cell.

15. (Previously presented) A transgenic plant comprising the DNA of claim 10.

16. (Previously presented) A vector comprising the chimeric isoprenoid synthase gene of claim 10 and a dominant selectable marker.

17. (Previously presented) The vector of claim 16 further comprising additional elements selected from the group consisting of a promoter regulatory region, a transcription initiation start site, a ribosome binding site, an RNA processing signal, a transcription termination site, and a polyadenylation agent.

18. (Previously presented) The vector of claim 11 comprising a transcription initiation regulatory region.

19. (Previously presented) The vector of claim 11 comprising a transcription termination regulatory region.

20. (Previously presented) The DNA of claim 10 wherein the chimeric isoprenoid synthase polypeptide encoded by the DNA includes therein a DDXXD motif.

21. (Previously presented) A vector comprising the DNA of claim 20.

22. (Cancelled)

23. (Cancelled)